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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

25X1A

COUNTRY USSR

SUBJECT Automotive Developments: The VMZ-63, Army
Tanker Truck for Water and Oil/The GAZ-67-
Amphibian.

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The VMZ-63 Tanker Truck

1. "Since 1950 the Soviet armored and motorized troops have been provided with the vehicle VMZ-63 for carrying water and fuel. The following information is dated June 1953.
2. "The VMZ-63 is a cistern car mounted on the chassis of the cross-country truck GAZ-63. The VMZ-63 provides tanks, tractors, automobiles, etc., with water and oil at a normal temperature or hot water and hot oil. The VMZ-63 can turn snow and ice into water and oil which has coagulated into liquid oil.
3. "Technical details of the VMZ-63:
 - (a) Inside the cistern there is a 'heating chamber' for which both gasoline and firewood can be used as fuel. The heating chamber is surrounded by a 'water section' with a volume of 1000 liters. The water section is surrounded by an oil section with a volume of 650 liters.
 - (b) At a temperature of -20°C the VMZ-63 heats 650 liters of oil and 1000 liters of water:

Oil to $+75^{\circ}\text{C}$ in 75 minutes when the fuel is gasoline
Water to $+100^{\circ}\text{C}$ in 150 minutes when the fuel is firewood
 - (c) For this purpose it consumes 25 liters of gasoline or 0.20 cubic meters of dry firewood.
 - (d) The cistern is isolated from outside so that at a temperature of -20°C the temperature of the water and oil in the cistern sinks on an average of 30°C per hour after the heating has stopped.
 - (e) The technical data for the chassis are the same as for the truck GAZ-63.

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4. "The VMZ-63 are manufactured by the Molotov Automobile Works in Gorki.

The GAZ-67-Amphibian

5. "The automobile faculty of the 'Military Transport Academy of the Armed Forces Named for L.M. Kaganovich' in Leningrad undertook in August 1953 a tactical trip into the area of Narva-Jõesuu and Narva. The leaders of the trip were three teachers of the Academy, Colonel N. A. Bukharin, Colonel N. Kh. Diachenko and Colonel Ya. I. Bronshtein. The officers of the second course (year) took part in the trip. It has been ascertained that the automobile faculty trains officers for the posts as chief of staffs and commander of separate (otdelny) automobile battalions and departments of large troop formations or military districts.
6. "A new type of amphibian vehicle for four persons was observed during the trip. Its designation is 'GAZ-67-amphibian'. It is built on the base of the automobile GAZ-67, has an all-metal welded amphibious body rigidly connected with the frame placed within it. A motor of 54 HP is mounted on the frame. On water this amphibian is moved by one screw propeller with a velocity of up to 12 km. per hour. The steering on water is effected by turning the front wheels and by means of a special steering wheel. The amphibian has an automobile pump for pumping out water.
7. "Heavy amphibian vehicles for 16 persons also took part in the trip. They had four axles and their metallic pontoon body rested on eight wheels with large 'profile' tires (without any springs). The heavy amphibians have two motors. From each motor a gear (drive) goes to the wheels and propeller of one side. The cars have two screw propellers and two water steering wheels each. They move on water with a velocity of up to eight kilometers per hour and are provided with a central system for regulating the air in the tires. On land these amphibians propel themselves on the three back axles, the first pair of wheels being raised."

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